

SFO ID NO.1

FIG.1 a

GAATTCCCCAACAGAGCCAAGCTCTCCATCTAGTGGACAGGGAAAGCTAGCAGCAAACC	59(UPPER:SEQ ID NO 1)
	19(LOWER:SEQ ID NO 4)
TTCCCTTCACTACAAAACCTTCATTGCTTGGCAAAAAGAGAGTTAATTCAATGTAGACAT	119
	39
CTATGTAGGCAATTAAAAACCTATTGATGTATAAAACAGTTGCATTCATGGAGGGCAAC	179
	59
TAAATACATTCTAGGACTTTATAAAAGATCACCTTTTATTTATGCACAGGGTGGAACAG	239
	79
ATGGATTATCAAGTGTCAAGTCCAATCTATGACATCAATTATTATACATCGGAGCCCTGC	299
M D Y Q V S S P I Y D I N Y Y T S E P C	99
CMAAAAATCAATGTGAAGCAAATCGCAGCCGCCCTGCCTCCGCTCTACTCACTGGTG	359
Q K I N V K Q I A A R L L P P L Y S L V	119
TTCATCTTGGTTTGTGGCAACATGCTGGTCATCCTCATCCTGATAAAACTGCAAAAGG	419
E I F G F V G N M L V I L I L I N C K R	139
CTGAAGAGGCATGACTGACATCTACCTGCTAACCTGGCCATCTCTGACCTGTTTCCCTT	479
H K S M T D I Y L L N L A I S D L F F L	159
CTTACTGTCCCCCTCTGGGCTCACTATGCTGCCGCCAGTGGACTTTGGAAATACAATG	539
T V P F W A H Y A A A Q W D F G N T M	179
TGTCAACTCTTGACAGGGCTCTATTTATAGGCTTCTCTGGAATCTCTTCATCATC	599
G Q L L T G L Y F I G F F S G I F F I I	199
CTCCTGACAATCGATAGGTACCTGGCTGTCATGCTGTGTTGCTTAAAGCCAGG	659
L L T I D R Y L A V V H A V F A L K A R	219
ACGGTCACCTTGGGTGGTGACAAGTGTGATCACTTGGGTGGCTGTGTTGCGTCT	719
T V T F G V V T S V I T W V V A V F A S	239
CTCCCAGGAATCATCTTACCAAGATCTAAAAAGAAGGTCTCATTACACCTGCAGCTCT	779
L P G I I F T R S Q K E G L H Y T C S S	259
CATTTTCCATACA	
H F P Y	

GAATTCCCCAACAGAGCCAAGCTCTCATCTAGGGACAGGGAAAGCTAGCAGCAAACC	59(UPPER SEQ ID NO 2 19(LOWER SEQ ID) NO 5
TTCCCTTCACTACAAAACCTTCATTGCTTGGCCAAAAGAGAGTTAATTCAATGTAGACAT	119 39
CTATGTAGGCAATTAAAAACCTATTGATGTATAAAACAGTTGCATTCATGGAGGGCAAC	179 59
TAAATACATTCTAGGACTTTATAAAAGATCACTTTTATTTATGCACAGGGTGGAACAAAG	239 79
ATGGATTATCAAGTGTCAAGTCCAATCTATGACATCAATTATTATACATCGGAGCCCTGC	299
M D Y Q V S S P I Y D I N Y Y T S E P C	99
Q K I N V K Q I A A R L L P P L Y S L V	359 119
F I F G F V G N M L V I L I L I N C K R	419 139
GIGAAGAGCATGACTGACATCTACCTGCTAACCTGCCATCTTGACCTGTTTCCIT	479
S L K S M T D I Y L L N L A I S D L F F L	159
GTTACTGTCCCCTCTGGGCTCACTATGCTGCCGCCAGTGGACTTTGAAATACAATG	539
S L T V P F W A H Y A A A Q W D F G N T M	179
GTCAACTCTGACAGGGCTCTATTATAGGCTTCTCTGGAATCTTCTTCATCATE	599
C C Q L L T G L Y F I G F F S G I F F I I	199
CTCCTGACAATCGATAGGTACCTGGCTGTCGCCATGCTGTGTTGCTTAAAAGCCAGG	659
L L T I D R Y L A V V H A V F A L K A R	219
ACGGTCACCTTGGGTGGTGACAAGTGTGATCACCTGGGTGGCTGTGTTGCGTCT	719
T V T F G V V T S V I T W V V A V F A S	239
CTCCCAGGAATCATCTTACAGATCTAAAAAGAAGGTCTTCATTACACCTGCAGCTCT	779
L P G I I F T R S Q K E G L H Y T C S S	259
CATTTCCATACAGTCAGTATCAATTCTGGAAGAATTCCAGACATTAAAGATAGTCATC	839
H F P Y S Q Y Q F W K N F Q T L K I V I	279

SEQ ID NO.2 FIG.1b

TTGGGGCTGGTCCTGCCGCTGCTTGTCACTGGTCATCTGCTACTCGGAATCCTAAAAACT	899
L G L V L P L L V M V I C Y S G I L K T	299
CTGCTTCGGTGTCAAATGAGAAGAAGAGGCACAGGGCTGTGAGGCTTATCTCACCATC	959
L L R C R N E K K R H R A V R L I F T I	319
ATGATTGTTATTTCTCTGGCTCCCTACAACATTGCTCTCCTGAACACCTTC	1019
M I V Y F L F W A P Y N I V L L L N T F	339
CAGGAATTCTTGCCCTGAATAATTGAGTAGCTAACAGGTGGACCAAGCTATGCAG	1079
Q E F F G L N N C S S S N R L D Q A M Q	359
GTGACAGAGACTCTGGATGACGCACTGCTGCATCAACCCCATCATCTATGCCTTGTC	1139
V T E T L G M T H C C I N P I I Y A F V	379
GGGGAGAAGITCAGAAACTACCTCTTAGTCTTCTTCCAAAAGCACATTGCCAAACGCTTC	1199
G E K F R N Y L L V F F Q K H I A K R F	399
TGCAAATGCTGTTCTATTTCCAGCAAGAGGGCTCCCGAGCGAGCAAGCTCAGTTACACC	1259
C K C C S I F Q Q E A P E R A S S V Y T	419
<del>CGATCCACTGGGAGCAGGAAATATCTGTGGCTTGTGACACGGACTCAAGTGGCTGGT</del>	1319
<del>S T G E Q E I S V G L *</del>	439
<del>GA</del> CCCAGTCAGAGTTGTGCACATGGCTTAGTTTACACACAGCCTGGCTGGGGTNGG	1379
<del>T</del> GGNNAGGTCTTTAAAGGAAGTTACTGTTATAGAGGGCTAAGATTATCCATT	1439
<del>T</del> TTTGGCATCTGTTAAAGTAGATTAGATCCGAATT	479

SEQ ID NO.2 (SUITE)

FIG.1c

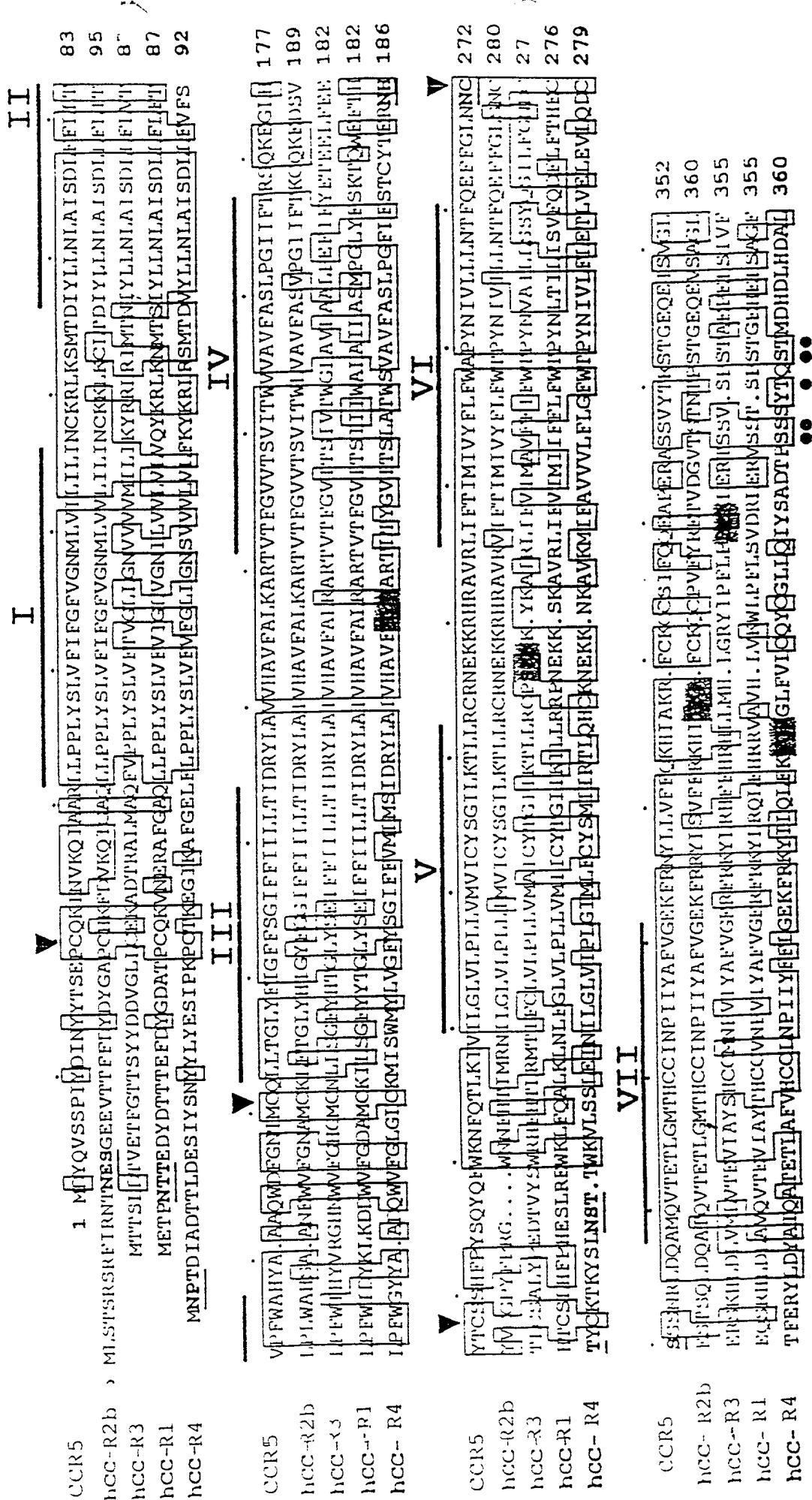
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CTATGTAGGCAATTAAAAACCTATTGATGTATAAAACAGTTGCATTCATGGAGGGCAAC	179 59
TAAATACATTCTAGGACTTTATAAAAGATCACTTTTATTTATGCACAGGGTGGAACAG	239 79
ATGGATTATCAAGTGTCAAGTCCAATCTATGACATCAATTATTATACATCGGAGCCCTGC	299 99
M D Y Q V S S P I Y D I N Y Y T S E P C	
CAAAAAATCAATGTGAAGCAAATCGCAGCCCCCTCCTGCCTCCGCTCTACTCACTGGTG	359
Q K I N V K Q I A A R L L P P L Y S L V	119
TTCATCTTGGTTTGTGGCAACATGCTGGTCATCCTCATCCTGATAAACTGCAAAAGG	419
F I F G F V G N M L V I L I L I N C K R	139
GTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTGTTTCCTT	479
L K S M T D I Y L L N L A I S D L F F L	159
GTTACTGTCCCCTCTGGGCTCACTATGCTGCCGCCAGTGGACTTTGAAATACAATG	539
L T V P F W A H Y A A A Q W D F G N T M	179
TGTCAACTCTTGACAGGGCTCTATTATAGGCTTCTCTGGAATCTCTTCATCATC	599
C Q L L T G L Y F I G F F S G I F F I I	199
CTCCTGACAATCGATAGGTACCTGGCTGTCGTCCATGCTGTGTTGCTTAAAAGCCAGG	659
L L T I D R Y L A V V H A V F A L K A R	219
ACGGTCACCTTGGGTGGTGACAAGTGTGATCACTGGGTGGCTGTGTTGCGTCT	719
T V T F G V V T S V I T W V V A V F A S	239
CTCCCAGGAATCATCTTACCAAGATCTCAAAAAGAAGGTCTTCATTACACCTGCAGCTCT	779
L P G I I F T R S Q K E G L H Y T C S S	259
CATTTTCCATACATTAAAGATAGTCATCTGGGGCTGGCCTGCCGCTGTTGTATGGT	839
H F P Y I K D S H L G A G P A A A C H G	279

SEQ ID NO.3FIG.1d

CATCTGCTACTCGGGAATCCTAAAAACTCTGCCTCGGTGTCGAAATGAGAA	AAGAGGCA	899
H L L L G N P K N S A S V S K *		299
CAGGGCTGTGAGGCTTATCITCACCATCATGATTGTTATTTCTCTTCTGGGCTCCCTA		959
		319
CAACATTGTCCTCTCCTGAACACCTCCAGGAATTCTTGGCCTGAATAATTGCAGTAG		1019
		339
CTCTAACAGGTTGGACCAAGCTATGCAGGTGACAGAGACTCTGGGATGACGCACTGCTG		1079
		359
CATCAACCCCATCATCTATGCCCTTGCGGGAGAAGTTAGAAACTACCTCTTAGTCTT		1139
		379
CTTCCAAAAGCACATTGCCAACGCTTCTGCAAATGCTGTTCTATTTCCAGCAAGAGGC		1199
		399
TCCCGAGCGAGCAAGCTCAGTTACACCCGATCCACTGGGAGCAGGAAATATCTGTGGG		1259
		419
CTGTGACACGGACTCAAGTGGCTGGTGACCCAGTCAGAGTTGTGCACATGGCTTAGTT		1319
		439
TTCATACACAGCCTGGCTGGGGTNGGTTGGNNAGGTCTTTTAAAAGGAAGTTACT		1379
		459
GTTATAGAGGGTCTAAGATTCCATTATGGCATCTGTTAAAGTAGATTAGATCC		1439
		479

GAATTC

SEQ ID NO.3 (SUITE)FIG.1e

FIG. 2

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Y<sub>1</sub>, Y<sub>2</sub>, Y<sub>3</sub>, Y<sub>4</sub>, Y<sub>5</sub>, Y<sub>6</sub>, Y<sub>7</sub>, Y<sub>8</sub>, Y<sub>9</sub>, Y<sub>10</sub>, Y<sub>11</sub>, Y<sub>12</sub>, Y<sub>13</sub>, Y<sub>14</sub>, Y<sub>15</sub>, Y<sub>16</sub>, Y<sub>17</sub>, Y<sub>18</sub>, Y<sub>19</sub>, Y<sub>20</sub>, Y<sub>21</sub>, Y<sub>22</sub>, Y<sub>23</sub>, Y<sub>24</sub>, Y<sub>25</sub>, Y<sub>26</sub>, Y<sub>27</sub>, Y<sub>28</sub>, Y<sub>29</sub>, Y<sub>30</sub>, Y<sub>31</sub>, Y<sub>32</sub>, Y<sub>33</sub>, Y<sub>34</sub>, Y<sub>35</sub>, Y<sub>36</sub>, Y<sub>37</sub>, Y<sub>38</sub>, Y<sub>39</sub>, Y<sub>40</sub>, Y<sub>41</sub>, Y<sub>42</sub>, Y<sub>43</sub>, Y<sub>44</sub>, Y<sub>45</sub>, Y<sub>46</sub>, Y<sub>47</sub>, Y<sub>48</sub>, Y<sub>49</sub>, Y<sub>50</sub>, Y<sub>51</sub>, Y<sub>52</sub>, Y<sub>53</sub>, Y<sub>54</sub>, Y<sub>55</sub>, Y<sub>56</sub>, Y<sub>57</sub>, Y<sub>58</sub>, Y<sub>59</sub>, Y<sub>60</sub>, Y<sub>61</sub>, Y<sub>62</sub>, Y<sub>63</sub>, Y<sub>64</sub>, Y<sub>65</sub>, Y<sub>66</sub>, Y<sub>67</sub>, Y<sub>68</sub>, Y<sub>69</sub>, Y<sub>70</sub>, Y<sub>71</sub>, Y<sub>72</sub>, Y<sub>73</sub>, Y<sub>74</sub>, Y<sub>75</sub>, Y<sub>76</sub>, Y<sub>77</sub>, Y<sub>78</sub>, Y<sub>79</sub>, Y<sub>80</sub>, Y<sub>81</sub>, Y<sub>82</sub>, Y<sub>83</sub>, Y<sub>84</sub>, Y<sub>85</sub>, Y<sub>86</sub>, Y<sub>87</sub>, Y<sub>88</sub>, Y<sub>89</sub>, Y<sub>90</sub>, Y<sub>91</sub>, Y<sub>92</sub>, Y<sub>93</sub>, Y<sub>94</sub>, Y<sub>95</sub>, Y<sub>96</sub>, Y<sub>97</sub>, Y<sub>98</sub>, Y<sub>99</sub>, Y<sub>100</sub>

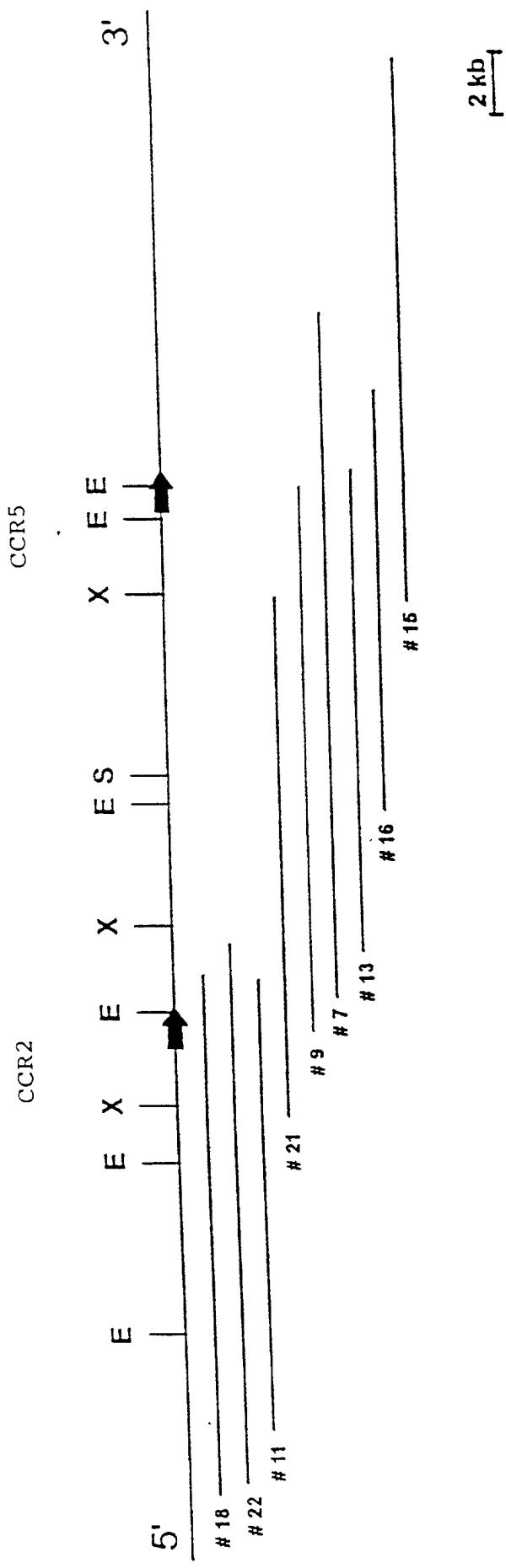
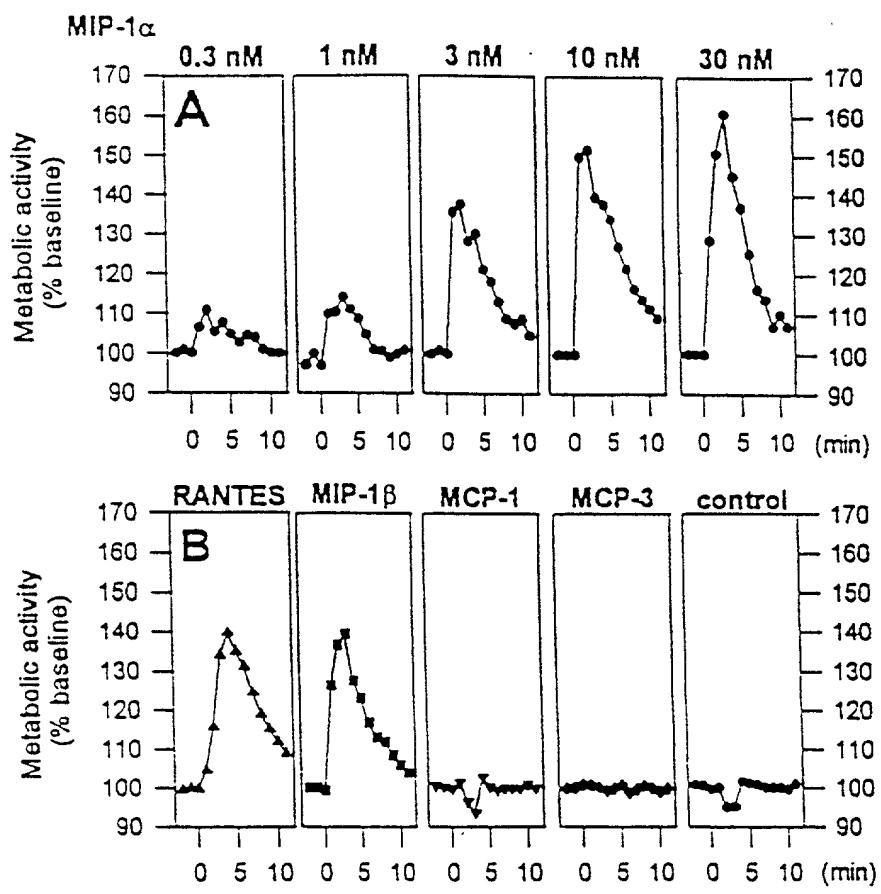
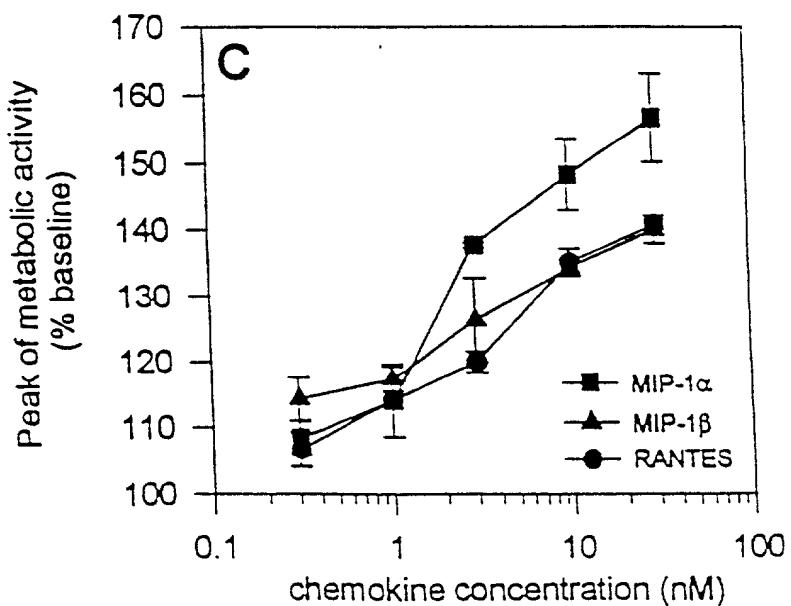


FIG. 3

FIG. 4aFIG. 4b

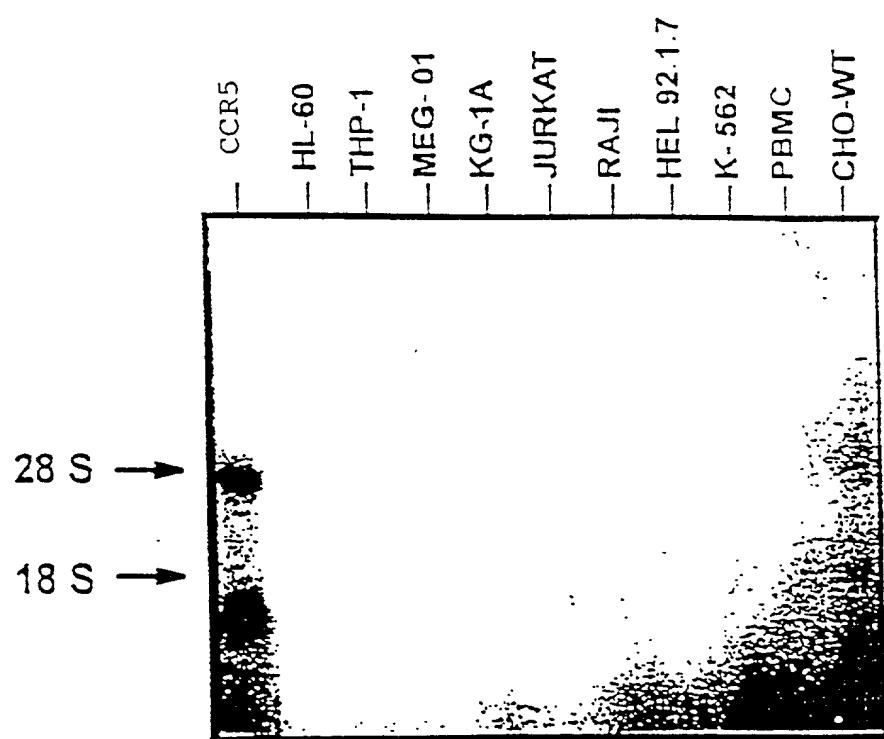
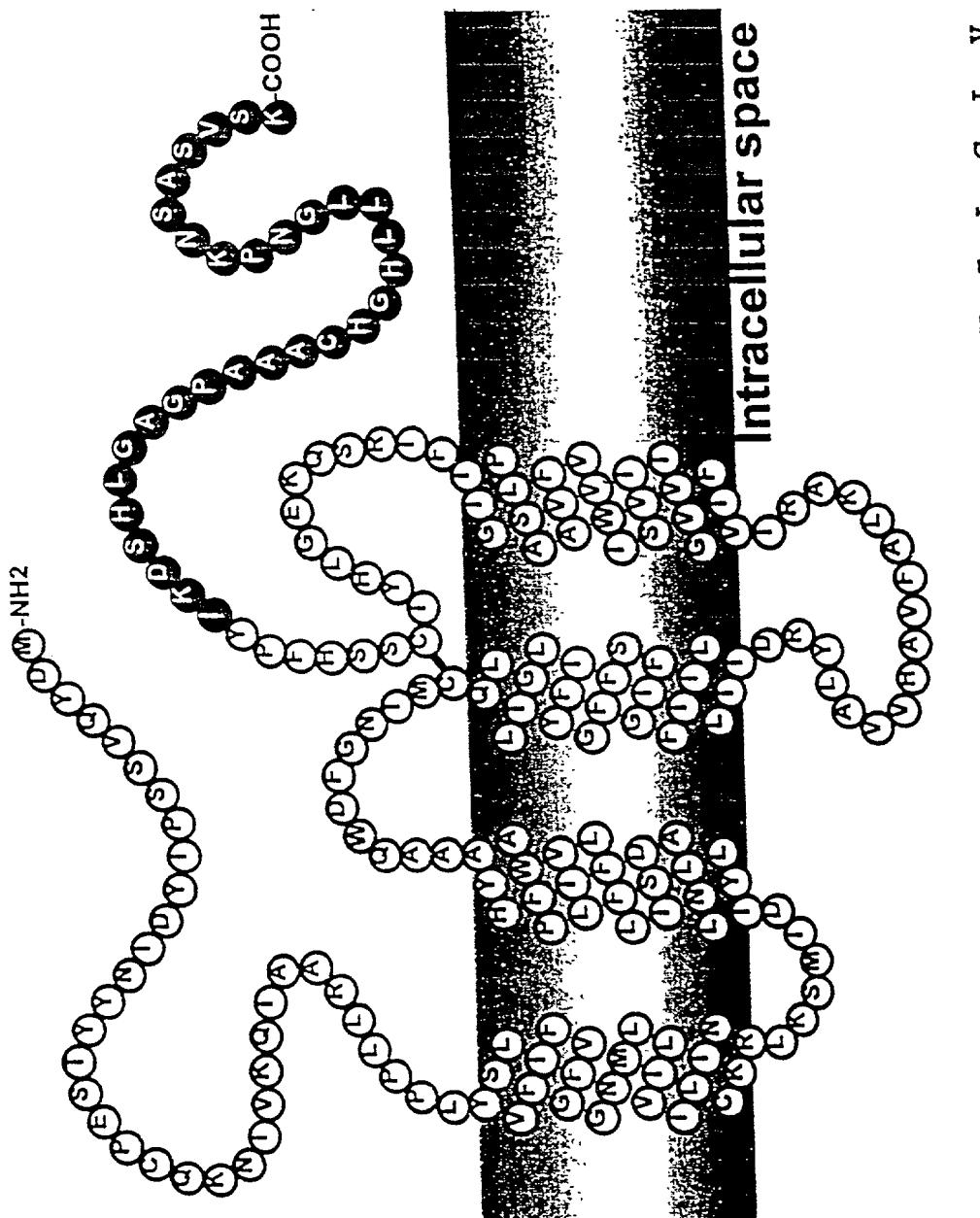


FIG. 5

**b**

CCR5 F P Y S Q Y Q F W K N F Q T L K I V I L G L V L P  
 TTTCATACAGtcgttcaattctggaaatccagatTTAAAGATAAGTCACTGGCTGCGC  
 Δccr5 F P Y

deletion

CCR5 L L V M V I C Y S G I L K T L R C R N E K K R  
 CTGCTGTCAATGGTCATCTGCTACTCGGGAAATCCATTAAACTCTGCTTCGGTGTGCGAATGAGAAGAGG  
 Δccr5 A A C H G H L L G N P K N S A S V S K \*

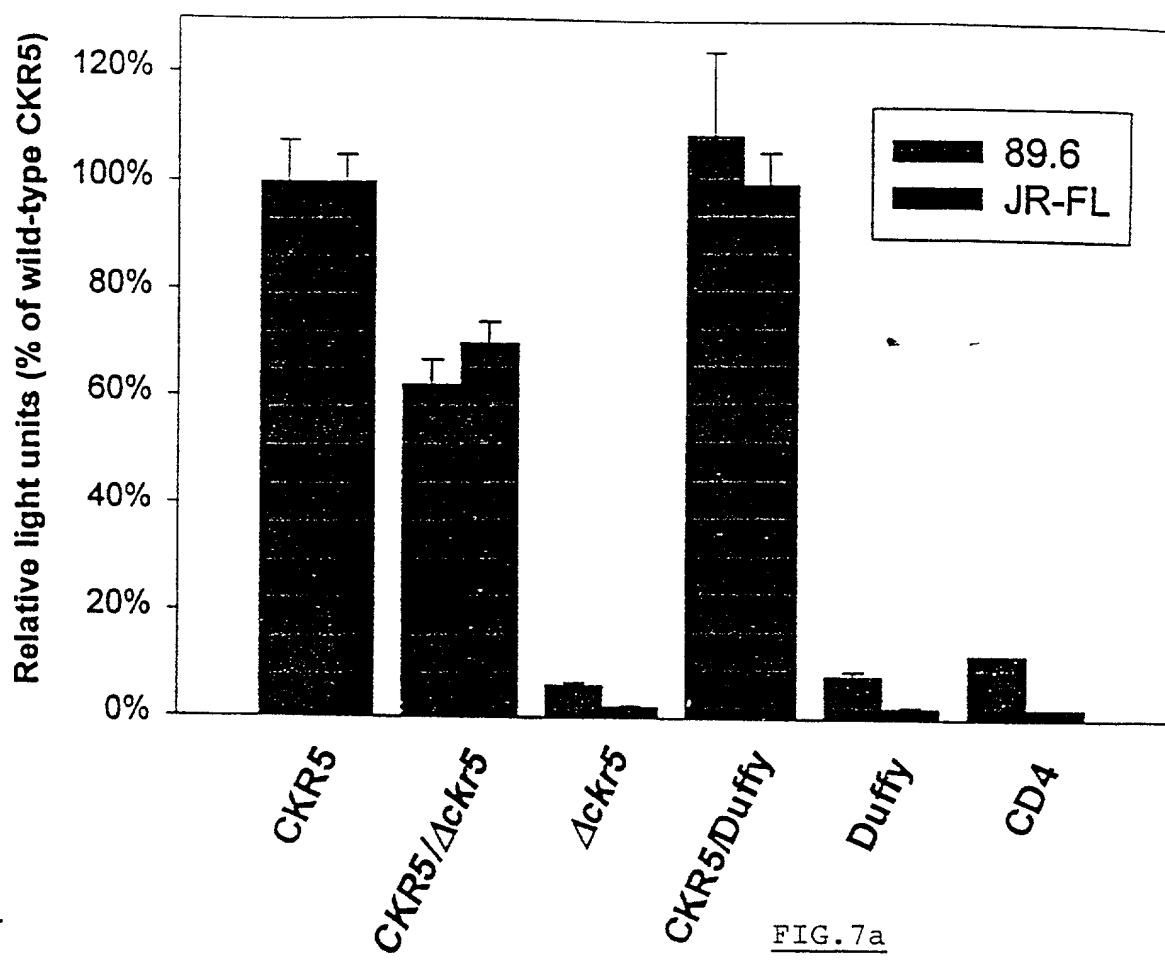
*A.*

FIG. 7a

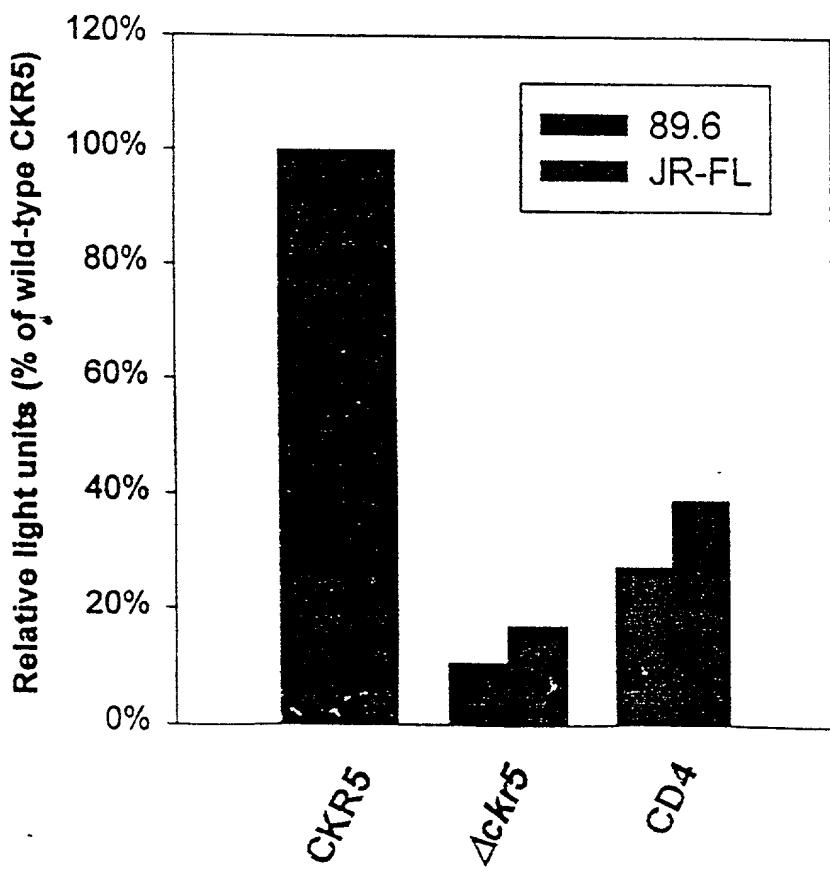
*B.*

FIG. 7b

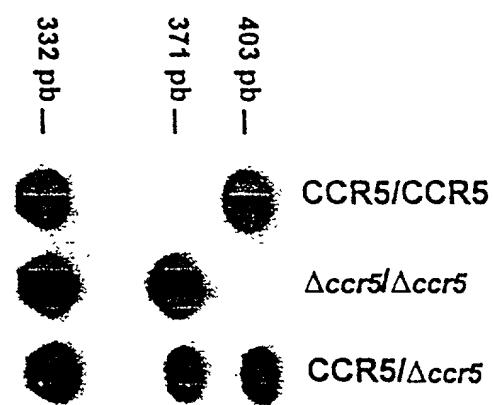


FIG. 8

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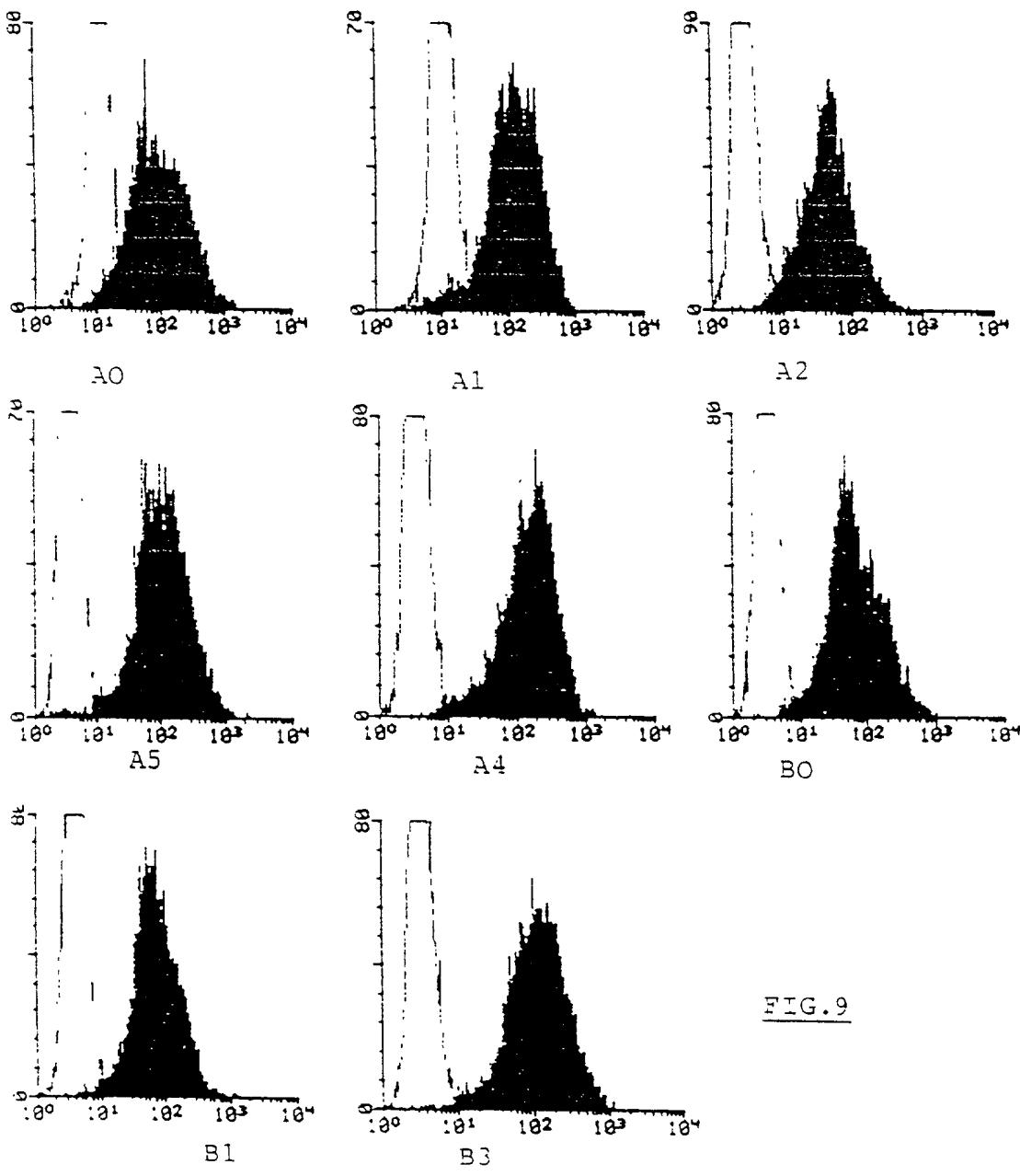


FIG. 9

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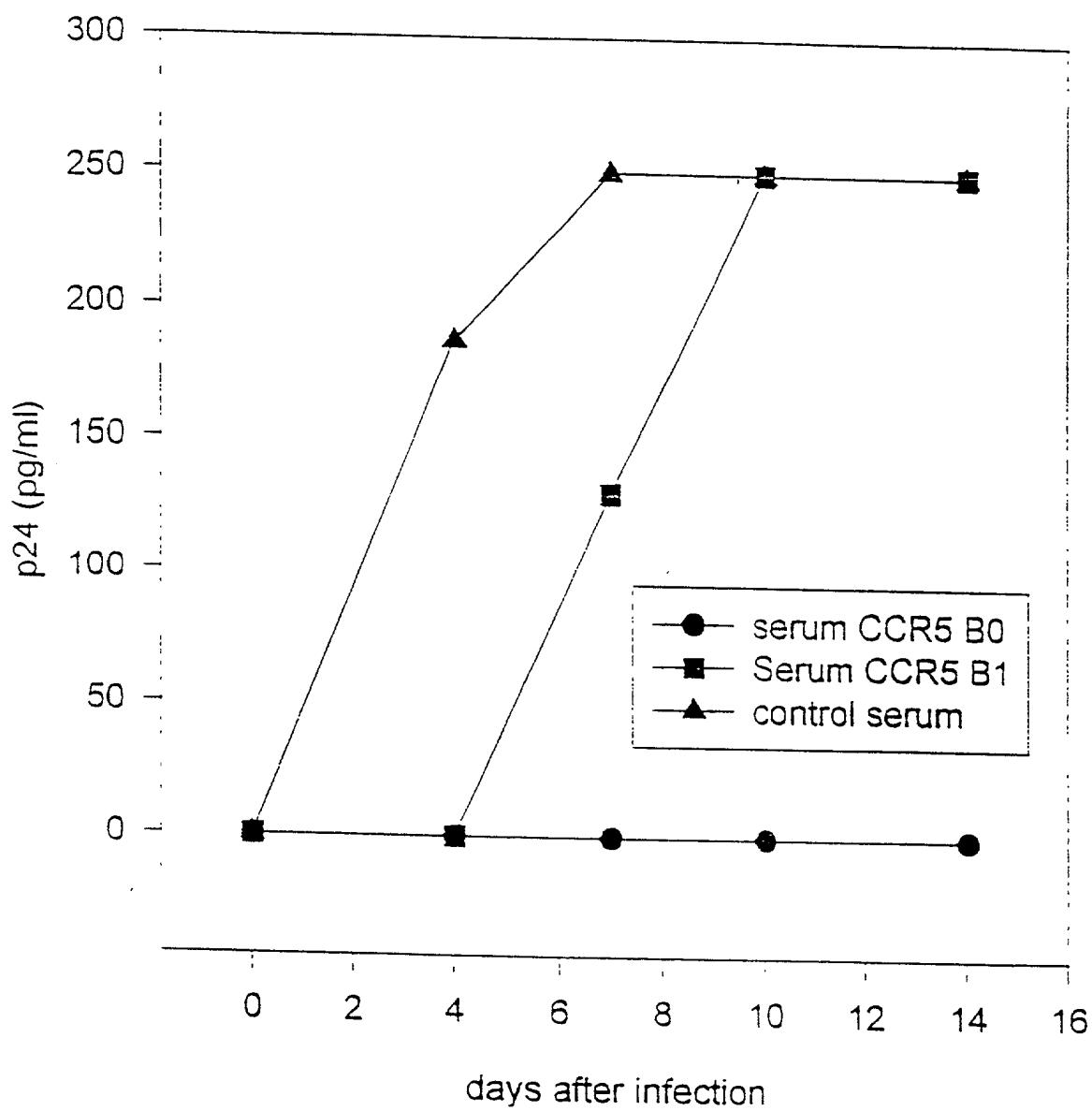


FIG.10